

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.3910003/BJD/AGLAPPLICATION NO.  
09/741,664APPLICANT  
RASHTCHIAN *et al.*FILING DATE  
December 21, 2000GROUP  
1655

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
LBA	AA1	4,683,195	07/28/1987	Mullis <i>et al.</i>	435	6	02/07/1986
	AB1	4,683,202	07/28/1987	Mullis	435	91	10/25/1985
	AC1	4,795,699	01/03/1989	Tabor <i>et al.</i>	435	5	01/14/1987
	AD1	4,889,818	12/26/1989	Gelfand <i>et al.</i>	435	194	06/17/1987
	AE1	4,962,020	10/09/1990	Tabor <i>et al.</i>	435	6	07/12/1988
	AF1	4,965,188	10/23/1990	Mullis <i>et al.</i>	435	6	06/17/1987
	AG1	5,173,411	12/22/1992	Tabor <i>et al.</i>	435	91	04/12/1991
	AH1	5,338,671	08/16/1994	Scalice <i>et al.</i>	435	91.2	10/07/1992
	AI1	5,374,553	12/20/1994	Gelfand <i>et al.</i>	435	252.3	08/13/1990
	AJ1	5,409,818	04/25/1995	Davey <i>et al.</i>	435	91.21	06/24/1988
	AK1	5,420,029	05/30/1995	Gelfand <i>et al.</i>	435	194	01/03/1993

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
LBA	AL1	EP 0 329 822 A2	08/30/1989	Europe	11	11	Yes No
	AM1	WO 90/08839	08/09/1990	WIPO	11	11	Yes No
	AN1	WO 92/06188	04/16/1992	WIPO	11	11	Yes No
	AO1	WO 92/06200	04/16/1992	WIPO	11	11	Yes No
	AP1	EP 0 534 858 A1	03/31/1993	Europe	11	11	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

LBA	AR	1	Barnes, W.M., "Sequencing DNA with Dideoxyribonucleotides as Chain Terminators: Hints and Strategies for Big Projects," <i>Meth. Enzymol.</i> 152:538-56, Academic Press, Inc., (1987).
LBA	AS	1	Barnes, W.M., "The fidelity of <i>Taq</i> polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35, Elsevier, (1992).
LBA	AT	1	Barnes, W.M., "PCR amplification of up to 35-kb DNA with high fidelity and high yield from $\lambda$ bacteriophage templates," <i>Proc. Natl. Acad. Sci. USA</i> 91:2216-2220, National Academy of Sciences, (1994).

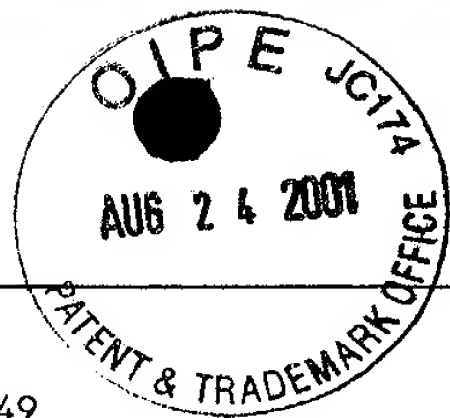
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LBA	AA2	5,436,149	07/25/1995	Barnes	435	194	02/19/1993
	AB2	5,455,166	10/03/1995	Walker	435	91.2	01/09/1992
	AC2	5,466,591	11/14/1995	Abramson <i>et al.</i>	435	194	02/23/1993
	AD2	5,489,523	02/06/1996	Mathur	435	194	10/26/1992
	AE2	5,498,523	03/12/1996	Tabor <i>et al.</i>	435	6	07/14/1994
	AF2	5,512,462	04/30/1996	Cheng	435	91.2	02/25/1994
	AG2	5,556,772	09/17/1996	Sorge <i>et al.</i>	435	91.2	02/16/1994
	AH2	5,618,711	04/08/1997	Gelfand <i>et al.</i>	435	194	02/06/1995
	AI2	5,624,833	04/29/1997	Gelfand <i>et al.</i>	435	194	06/07/1995
	AJ2	5,795,762	08/18/1998	Abramson <i>et al.</i>	435	194	06/02/1995
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LBA	AL2	WO 95/16028	06/15/1995	WIPO			Yes No
	AM2	EP 0 684 315 A1	11/29/1995	Europe			Yes No
	AN2	WO 96/10640	04/11/1996	WIPO			Yes No
	AO2	EP 0 776 970 A1	06/04/1997	Europe			Yes No
	AP2	WO 97/37038	10/09/1997	WIPO			Yes X No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

LBA	AR	2	Bej, A.K., and Mahbubani, M.H., "Thermostable DNA Polymerases for <i>In Vitro</i> DNA Amplifications," in <i>PCR Technology: Current Innovations</i> , Griffin, H.G., and Griffin, A.M., Eds., CRC Press, pp. 219-237 (1994).
LBA	AS	2	Caetano-Anollés, G., <i>et al.</i> , "DNA Amplification Fingerprinting Using Very Short Arbitrary Oligonucleotide Primers," <i>Bio/Technol.</i> 9:553-557, Nature Publishing Co., (1991).
LBA	AT	2	Chou, Q., <i>et al.</i> , "Prevention of pre-PCR mis-priming and primer dimerization improves low-copy-number amplifications," <i>Nucl. Acids Res.</i> 20:1717-1723, Oxford University Press, (1992).

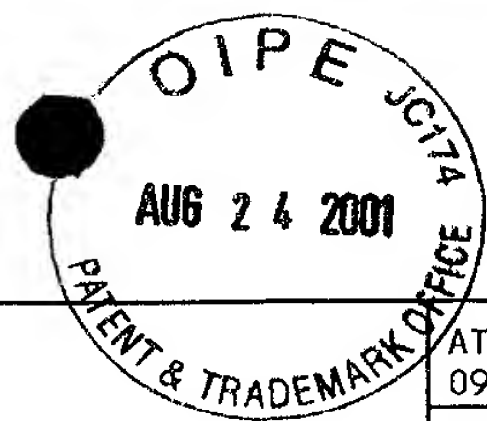
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LBA	AL3	EP 0 854 196 A1	07/22/1998	Europe			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

LBA	AR	3	D'Aquila, R.T., <i>et al.</i> , "Maximizing sensitivity and specificity of PCR by pre-amplification heating," <i>Nucl. Acids Res.</i> 19:3749, Oxford University Press, (1991).
↓	AS	3	Daiss, J.L., <i>et al.</i> , "Topographical characterization of the DNA polymerase from <i>Thermus aquaticus</i> . Defining groups of inhibitor mAbs by epitope mapping and functional analysis using surface plasmon resonance," <i>J. Immunol. Methods</i> 183:15-26, Elsevier, (June 1995).
↓	AT	3	Fiers W., <i>et al.</i> , "Complete nucleotide sequence of SV40 DNA," <i>Nature</i> 273:113-120, Macmillan Journals Ltd., (1978).

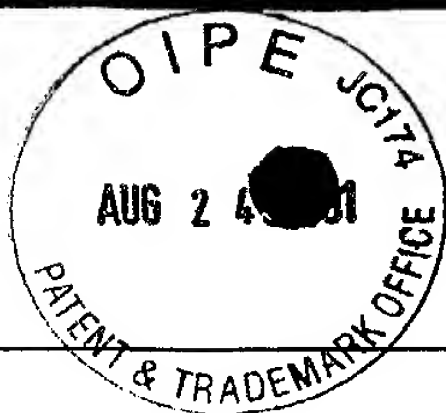
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	AP						Yes No

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LBA	AR	4	Flaman, J.-M., <i>et al.</i> , "A rapid PCR fidelity assay," <i>Nucl. Acids Res.</i> 22:3259-3260, Oxford University Press, (1994).
↓	AS	4	Frohman, M.A., <i>et al.</i> , "Rapid production of full-length cDNAs from rare transcripts: Amplification using a single gene-specific oligonucleotide primer," <i>Proc. Natl. Acad. Sci. USA</i> 85:8998-9002, National Academy of Sciences, (1988).
	AT	4	Gelfand, D.H., and White, T.J., "Thermostable DNA Polymerases," in <i>PCR Protocols: A Guide to Methods and Applications</i> , Innis, M.A., <i>et al.</i> , Eds., Academic Press, Inc., pp. 129-141 (1990).

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LBA	AR	5	Häämmerling, G.J., "Production of Antibody-Producing Hybridomas in the Rodent Systems," in <i>Monoclonal Antibodies and T-Cell Hybridomas: Perspectives and technical advances</i> , Häämmerling, G.J., et al. eds., Elsevier/North-Holland Biomedical Press, pp. 563-681 (1981).
↓	AS	5	Heath, D.D., et al., "PCR primed with VNTR core sequences yields species specific patterns and hypervariable probes," <i>Nucl. Acids Res.</i> 21:5782-5785, Oxford University Press, (1993).
✓	AT	5	Hibner, U., and Alberts, B.M., "Fidelity of DNA replication catalysed <i>in vitro</i> on a natural DNA template by the T4 bacteriophage multi-enzyme complex," <i>Nature</i> 285:300-305, Macmillan Journals Ltd., (1980).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

LBA	AR	6	Hinnisdaels, S., <i>et al.</i> , "Direct Cloning of PCR Products Amplified with <i>Pwo</i> DNA Polymerase," <i>BioTechniques</i> 20:187-188, Eaton Publishing Co., (February 1996).
↓	AS	6	Huang, H., and Keohavong, P., "Fidelity and Predominant Mutations Produced by Deep Vent Wild-Type and Exonuclease-Deficient DNA Polymerases During <i>In Vitro</i> DNA Amplification," <i>DNA Cell Biol.</i> 15:589-594, Mary Ann Liebert, Inc., (July 1996).
↓	AT	6	Kaufman, P.B., in "Handbook of Molecular and Cellular Methods in Biology and Medicine," Kaufman, P. B. <i>et al.</i> , eds., CRC Press, pp. 444-469 (May 1995).

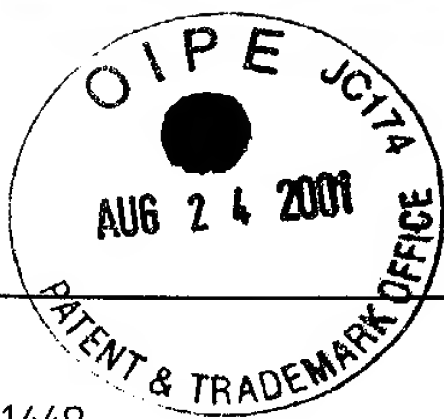
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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

LBA	AR	Z	Köhler, G., <i>et al.</i> , "Fusion between immunoglobulin-secreting and nonsecreting myeloma cell lines," <i>Eur. J. Immunol.</i> 6:292-295, Academic Press, Inc., (1976).
↓	AS	Z	Köhler, G., and Milstein, C., "Derivation of specific antibody-producing tissue culture and tumor lines by cell fusion," <i>Eur. J. Immunol.</i> 6:511-519, Academic Press, Inc., (1976).
↓	AT	Z	Köhler, G., and Milstein, C., "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256:495-497, Macmillan Journals Ltd., (1975).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

LBA	AR	8	Kornberg, A., "Biologic Synthesis of Deoxyribonucleic Acid," <i>Science</i> 131:1503-1508, American Association for the Advancement of Science, (1959).
↓	AS	8	Kunkel, T.A., <i>et al.</i> , "On the Fidelity of DNA Replication: The Accuracy of T4 DNA Polymerases in Copying $\phi$ X174 DNA <i>In Vitro</i> ," <i>J. Biol. Chem.</i> 259:1539-1545, American Society of Biological Chemists, Inc., (1984).
	AT	8	Lawyer, F.C., <i>et al.</i> , "High-level Expression, Purification, and Enzymatic Characterization of Full-length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Meth. Appl.</i> 2:275-287, Cold Spring Harbor Laboratory Press, (1993).

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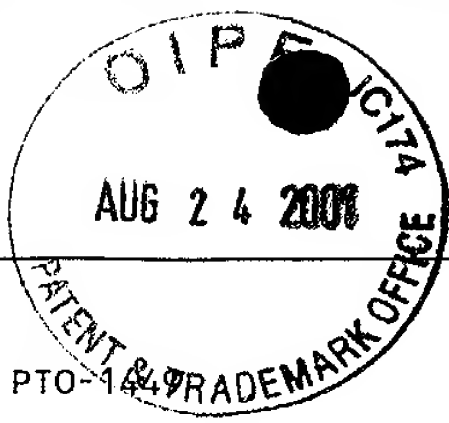
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LBA	AR	2	Li, H., <i>et al.</i> , "Direct electrophoretic detection of the allelic state of single DNA molecules in human sperm by using the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> 87:4580-4584, National Academy of Sciences, (1990).
I	AS	2	Lin, J.-J., and Kuo, J., "AFLP™: A Novel PCR-Based Assay for Plant and Bacterial DNA Fingerprinting," <i>FOCUS</i> 17:66-70, PRC Associates, (May 1995).
I	AT	2	Lundberg, K.S., <i>et al.</i> , "High-fidelity amplification using a thermostable DNA polymerase isolated from <i>Pyrococcus furiosus</i> ," <i>Gene</i> 108:1-6, Elsevier, (1991).

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LBA	AR	10	Mattila, P., <i>et al.</i> , "Fidelity of DNA synthesis by the <i>Thermococcus litoralis</i> DNA polymerase—an extremely heat stable enzyme with proofreading activity," <i>Nucl. Acids Res.</i> 19:4967-4973, Oxford University Press, (1991).
↓	AS	10	Maxam, A.M., and Gilbert, W.A., "A new method for sequencing DNA," <i>Proc. Natl. Acad. Sci. USA</i> 74:560-564, National Academy of Sciences, (1977).
↓	AT	10	Mullis, K.B., and Faloona, F.A., "Specific Synthesis of DNA <i>in Vitro</i> via a Polymerase-Catalyzed Chain Reaction," <i>Meth. Enzymol.</i> 155:335-350, Academic Press, Inc., (1987).

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WBA	AR	11	Reddy V.B., <i>et al.</i> , "The Genome of Simian Virus 40," <i>Science</i> 200:494-502, American Association for the Advancement of Science, (1978).
L	AS	11	Saiki, R.K., <i>et al.</i> , "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491, American Association for the Advancement of Science, (1988).
	AT	11	Saiki, R.K., <i>et al.</i> , "Enzymatic Amplification of $\beta$ -Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia," <i>Science</i> 230:1350-1354, American Association for the Advancement of Science, (1985).

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

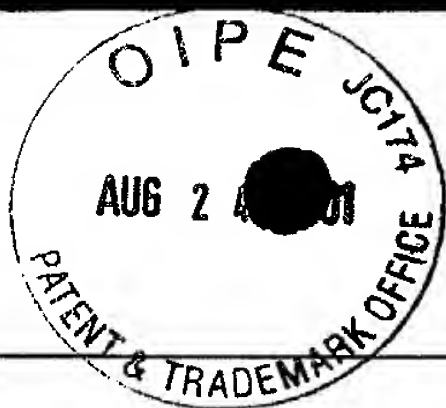
LBA	AR	12	Sanger, F., and Coulson, A.R., "A Rapid Method for Determining Sequences in DNA by Primed Synthesis with DNA Polymerase," <i>J. Mol. Biol.</i> 94:441-448, Academic Press, Inc., (1975).
↓	AS	12	Sanger, F., <i>et al.</i> , "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci. USA</i> 74:5463-5467, National Academy of Sciences, (1977).
	AT	12	Sanger, F., <i>et al.</i> , "Nucleotide sequence of bacteriophage $\phi$ X174 DNA," <i>Nature</i> 265:687-695, Macmillan Journals Ltd., (1977).

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## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.3910003/BJD/AGLAPPLICATION NO.  
09/741,664APPLICANT  
RASHTCHIAN *et al.*FILING DATE  
December 21, 2000GROUP  
1655

## U.S. PATENT DOCUMENTS

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	AL						Yes No
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	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

LBA	AR	13	Sharkey, D.J., <i>et al.</i> , "Antibodies as Thermolabile Switches: High Temperature Triggering for the Polymerase Chain Reaction," <i>Bio/Technol.</i> 12:506-509, Nature Publishing Co., (1994).
↓	AS	13	Slatko, B.E., "Thermal Cycle Dideoxy DNA Sequencing," <i>Molec. Biotechnol.</i> 6:311-322, Humana Press, (December 1996).
↓	AT	13	Sutcliffe, J.G., "Complete Nucleotide Sequence of the <i>Escherichia coli</i> Plasmid pBR322," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 43:77-90, Cold Spring Harbor Laboratory Press, (1979).

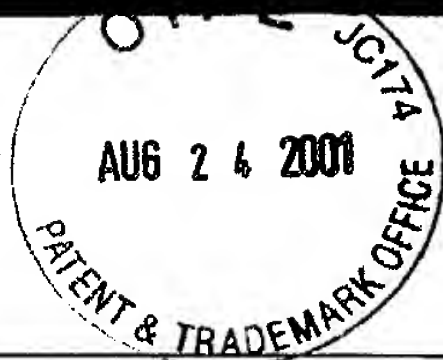
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Lisa B. Anderson

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

LSA	AR	14	Tindall, K.R., and Kunkel, T.A., "Fidelity of DNA Synthesis by the <i>Thermus aquaticus</i> DNA Polymerase," <i>Biochemistry</i> 27:6008-6013, American Chemical Society, (1988).
	AS	14	Vos, P., <i>et al.</i> , "AFLP: a new technique for DNA fingerprinting," <i>Nucl. Acids Res.</i> 23:4407-4414, Oxford University Press, (November 1995).
	AT	14	Welsh, J., and McClelland, M., "Fingerprinting genomes using PCR with arbitrary primers," <i>Nucl. Acids Res.</i> 18:7213-7218, Oxford University Press, (1990).

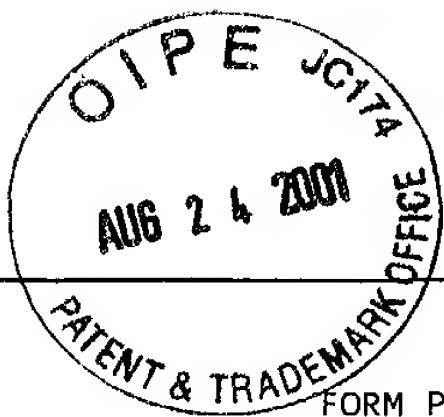
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Lisa F. A. L.

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

LBA	AR	15	Williams, J.G.K., <i>et al.</i> , "DNA polymorphisms amplified by arbitrary primers are useful as genetic markers," <i>Nucl. Acids Res.</i> 18:6531-6535, Oxford University Press, (1990).
LBA	AS	15	Dialog File 351, Accession No. 11503889, Derwent WPI English language abstract for WO 97/37038 (Document AP2).
	AT		

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